



The ROV *Little Hercules* being lowered into the sea. Image credit: NOAA.

How Do We Explore?

All life on Earth relies on the ocean—yet, the ocean is 95 percent unexplored, largely unknown and mostly unseen by human eyes...

The NOAA Ship *Okeanos Explorer* is the only U.S. ship assigned to systematically explore our largely unknown ocean for the purpose of discovery and the advancement of knowledge. Join us to learn about the innovative techniques, cutting edge tools and scientific processes the scientists and crew of *Okeanos Explorer* will be using as we begin a new era in ocean exploration!



NOAA scientists on the *Okeanos Explorer* examine live video feed from *Little Hercules*. Image credit: NOAA.

National Oceanic and Atmospheric Administration (NOAA)
Office of Ocean Exploration and Research (OER)

Online Professional Development

for Educators of All Grade Levels

How Do We Explore?

October 11-29, 2010

in partnership with
the College of Exploration

Join NOAA's Office of Ocean Exploration and Research (OER) for the third in a series of educator professional development opportunities focused on NOAA's new ship and America's Ship for Ocean Exploration, the *Okeanos Explorer*. **How Do We Explore?** covers topics such as searching for anomalies, selecting sites for exploration, communication tools, telepresence technology, mapping techniques, water column study and operating remotely operated vehicles. This course contains inquiry-based lessons for all grade-levels, and facilitated online reflective conversations about how we approach the study of our largely unexplored ocean.

Participants will include formal and informal educators, ocean explorers, scientists, and other interested members of the public. There will be opportunities to engage with ocean explorers and other participants. The ***How Do We Explore? Leader's Guide*** and its associated lessons, a wealth of other supporting resources, and optional graduate credit will be provided.

Speakers will include:

- **CDR Joseph Pica:** Commanding Officer, NOAA Ship *Okeanos Explorer*
- **Webb Pinner:** Systems Engineer, *Okeanos Explorer* Program, NOAA OER
- **Elizabeth (Meme) Lobecker:** Physical Scientist, NOAA *Okeanos Explorer* Program, NOAA OER
- **Dave Lavolvo:** Founder/Owner, Eastern Oceanics; Adjunct Professor, Institute for Exploration; ROV Team Lead, NOAA *Okeanos Explorer*

The workshop is free for all participants and will be available 24 hours a day, 7 days a week. Educators will have the option to receive one graduate credit (\$100) or obtain a certificate of completion.

Registration begins July 20, 2010 at <http://www.coexploration.org/oe>